(FILE 'USPAT' ENTERED AT 15:44:27 ON 06 MAR 1998) 2044 S UART L122 S L1 AND FULL DUPLEX AND HALF DUPLEX MODE. L2 9 S L2 AND SINGLE (P) CHANNEL L3 9 S L3 AND RECEIVER L49 S L4 AND COMPUTER L58 S L5 AND INDICATORS L6 8 S L6 AND PROCESSING L7 8 S L7 AND TRANSMITTER L8 8 S L8 AND LEAST L9 8 S L9 AND INDICATION L10 8 S L10 AND COMPLETELY L11

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5,687,194, Nov. 11, 1997, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 375/283; 370/330, 347, 436, 478; 455/466 [IMAGE AVAILABLE]

- 2. 5,657,358, Aug. 12, 1997, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or plurality of RF channels; Eric Panech, et al., 375/356; 370/330, 347, 477; 455/422 [IMAGE AVAILABLE]
- 3. 5,121,391, Jun. 9, 1992, Subscriber RF telephone system for providing multiple speech and/or data singals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/341, 286, 345, 521; 455/562 [IMAGE AVAILABLE]
- 4. 5,119,375, Jun. 2, 1992, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/345, 521; 455/562 [IMAGE AVAILABLE]
- 5. 5,022,024, Jun. 4, 1991, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/334, 341; 375/240, 280 [IMAGE AVAILABLE]
- 6. 4,912,705, Mar. 27, 1990, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/334, 341 [IMAGE AVAILABLE]
- 7. 4,817,089, Mar. 28, 1989, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/280, 344, 347, 521 [IMAGE AVAILABLE]
- 8. 4,675,863, Jun. 23, 1987, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 370/334,

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L11: 1 of 8

ABSTRACT:

which may be analog and/or digital. The information signals are selected from the group consisting of voice, data, facsimile, video, computer and instrumentation signals. The modulation level of the signals and the power applied to the system are adjusted in accordance. . plurality of RF channel pairs. Each channel pair operation is implemented by the combination of a transmit channel circuit for processing a given plural number of information signals received simultaneously over telephone company trunk lines for simultaneous transmission to different subscriber stations over a given RF channel, and a receive channel circuit for processing a plurality of signals received simultaneously over a given RF channel from different subscriber stations to provide information signals for. . .

SUMMARY:

BSUM(4)

. . which may be analog and/or digital. The information signals are selected from the group consisting of voice, data, facsimile, video, computer and instrumentation signals.

SUMMARY:

BSUM(8)

. . plurality of RF channel pairs. Each channel pair operation is implemented by the combination of a transmit channel circuit for processing a given plural number of information signals received simultaneously over telephone company trunk lines for simultaneous transmission to different subscriber stations over a given radio frequency (RF) channel, and a receive channel circuit for processing a plurality of signals received simultaneously over a given RF channel from different subscriber stations to provide information signals for.

SUMMARY:

BSUM (10)

The transmit channel circuit includes a given plural number of separate signal compression devices for simultaneously compressing the digital signal samples respectively derived from separate ones of the conversion devices to provide the given number of separate compressed signals; a channel control unit connected to the compression devices for sequentially combining the compressed signals into a single transmit channel bit stream, with each of the respective compressed signals occupying a repetitive sequential slot position in the transmit channel bit stream associated with a predetermined one of the separate compression devices and a unit for providing a transmit channel signal for transmission over the predetermined RF channel in response to the transmit channel bit stream.

SUMMARY:

BSUM (14)

The receive channel circuit includes a **receiver** unit for receiving a receive channel signal and for **processing** the receive channel signal to provide a receive channel bit stream containing separate compressed signals in different respective repetitive sequential. . .

SUMMARY:

BSUM(20)

Features . . . techniques. For example, the combined use of a 14.6 Kbps voice coding technique and 16-level DPSK modulation allows four simultaneous **full-duplex** conversations to be supported on a single pair of 20 KHz Bw channels that are spaced 25 KHz apart in. . particularly in the 400-500 MHz and 800-950 MHz segments. This combination provides good quality speech over a distance of at **least** 20 Km.